

51164 M

Single direction thrust ball bearing

Single direction thrust ball bearings can accommodate axial loads in one direction. They must not be subjected to any radial load. Their separable components facilitate mounting/dismounting and maintenance inspections. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit.

- Separable design facilitates mounting/dismounting and maintenance inspections
- Interchangeable components
- Ground bore of shaft washers enable interference fit

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	400 mm
Thickness	63 mm

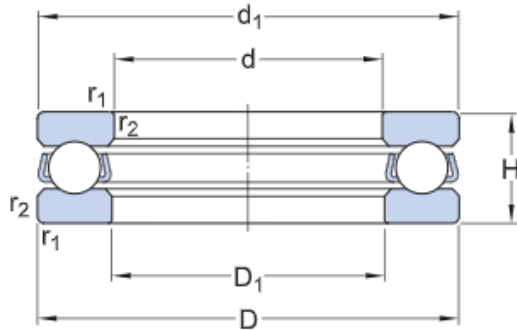
Performance

Basic dynamic load rating	371 kN
Basic static load rating	1 860 kN
Limiting speed	1 100 r/min
Reference speed	800 r/min

Properties

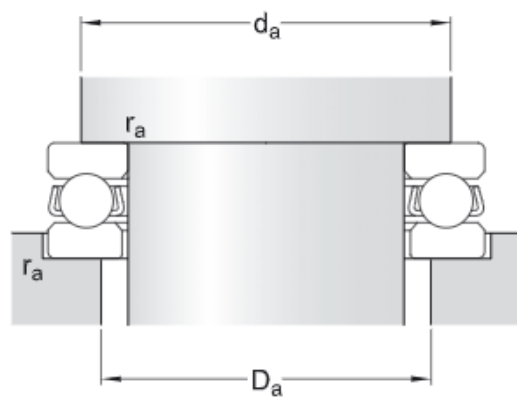
Axial load capability	Single-direction
Cage	Machined metal
Coating	Without
Housing washer type	Flat
Material, bearing	Bearing steel
Number of rows	1
Tolerance class	Normal

Technical Specification



Dimensions

d	320 mm	Bore diameter
D	400 mm	Outside diameter
H	63 mm	Height
d ₁	≈ 396 mm	Outside diameter shaft washer
D ₁	≈ 324 mm	Inner diameter housing washer
r _{1,2}	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 368 mm	Abutment diameter shaft
D _a	max. 352 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	371 kN
Basic static load rating	C ₀	1 860 kN
Fatigue load limit	P _u	36.5 kN
Reference speed		800 r/min
Limiting speed		1 100 r/min
Minimum load factor	A	18

Mass

Mass bearing (including seat washer where applicable)

19 kg

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